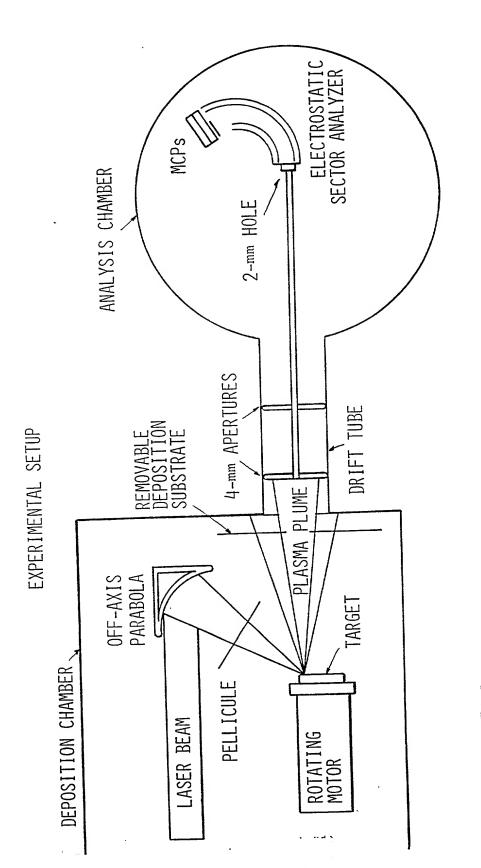
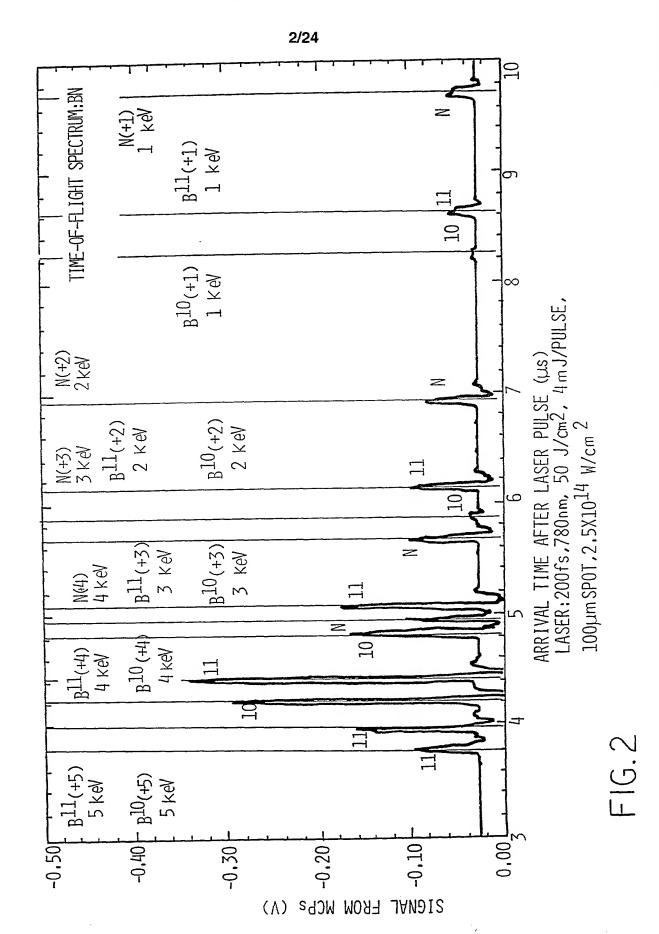
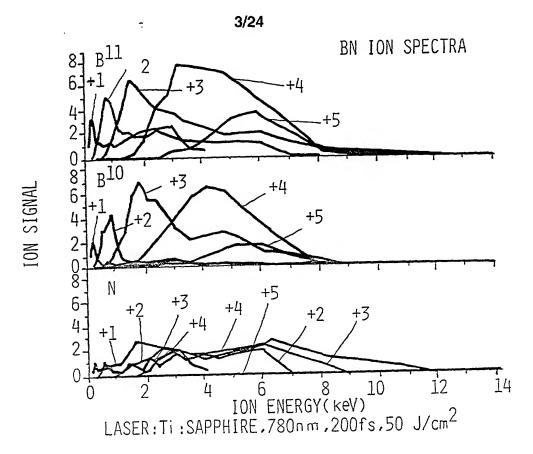
1/24

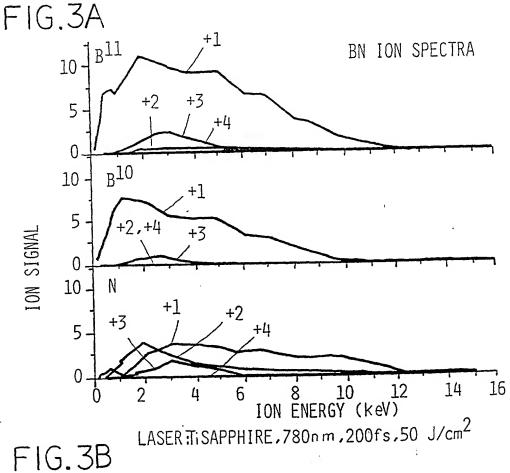


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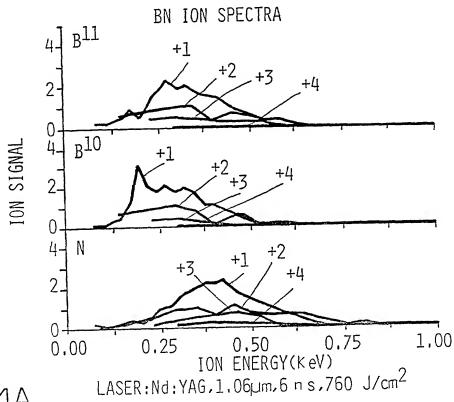


FIG.4A

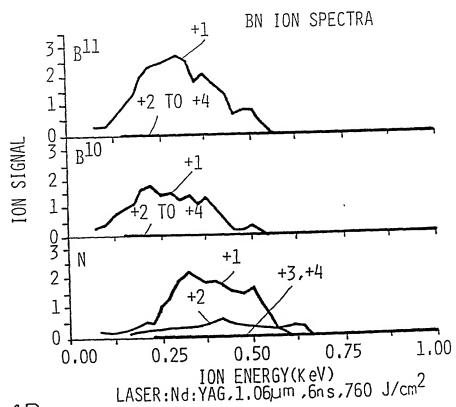


FIG.4B

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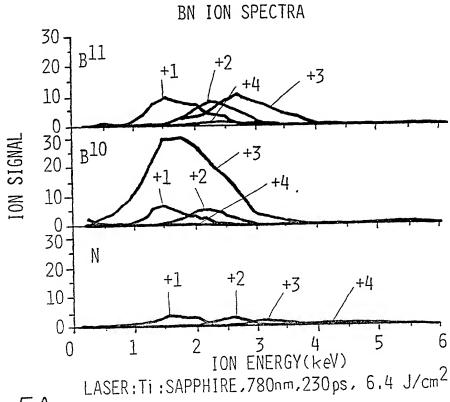


FIG.5A

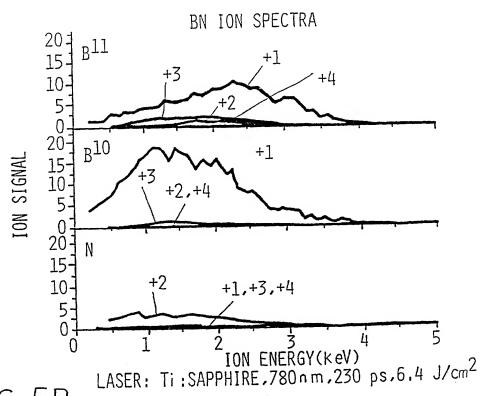


FIG. 5B

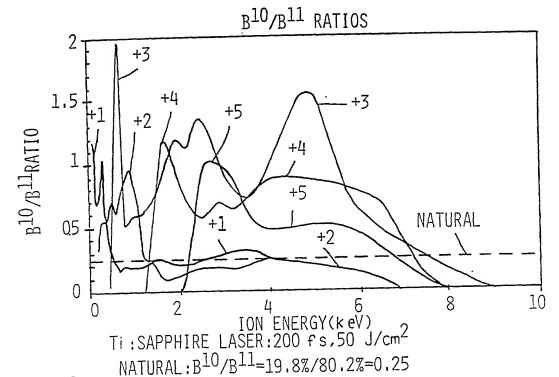
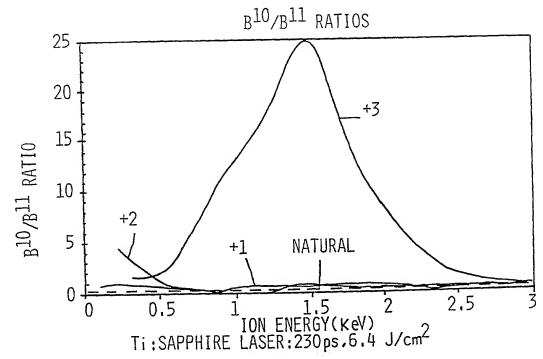


FIG.6A

and the second s



NATURAL: $B^{10}/B^{11}=19.8\%/80.2\%=0.25$

FIG.6B

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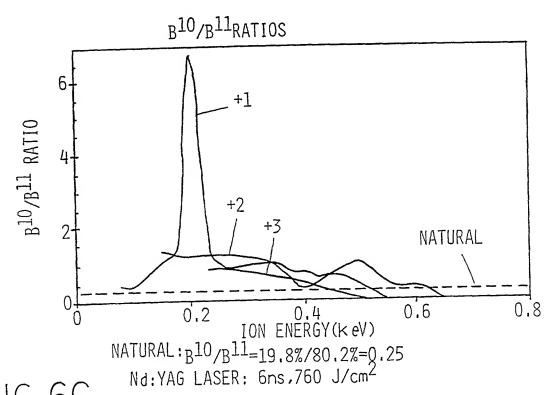
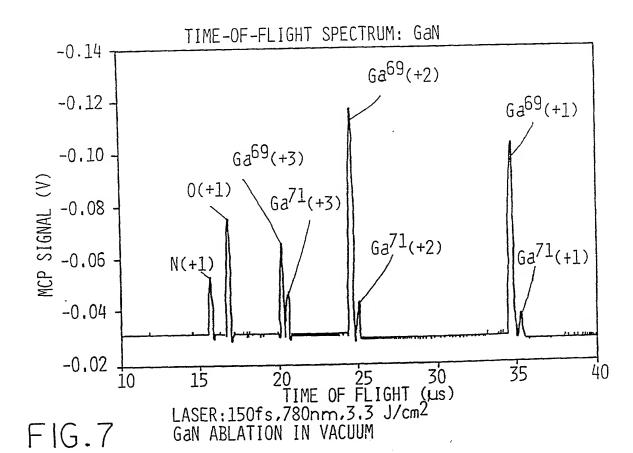


FIG.6C



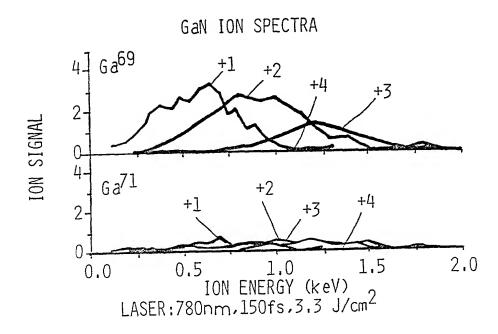
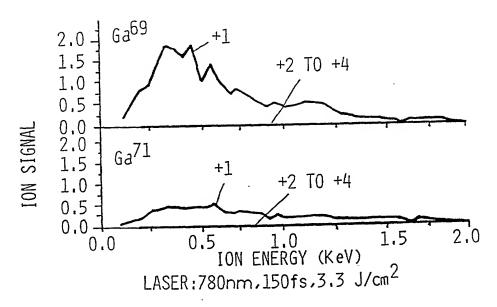
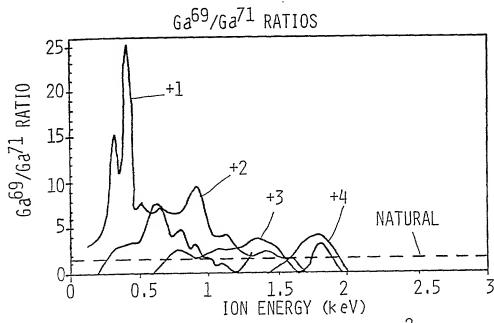


FIG.8A

GaN ION SPECTRA

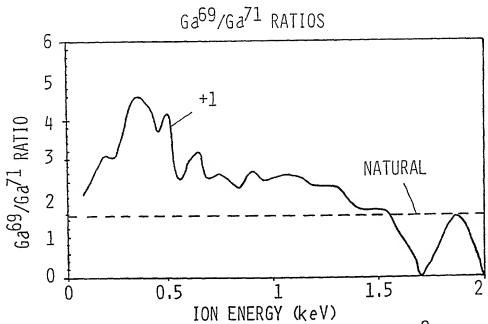


.FIG.8B



Ti:SAPPHIRE LASER: $150 \text{fs.} 3.3 \text{ J/cm}^2$ NATURAL: $6a^{69}/6a^{71}=60.4\%/39.6\%=1.53$

FIG.9A



Ti: SAPPHIRE LASER: $150 \text{fs.} 3.3 \text{ J/cm}^2$ NATURAL: $Ga^{69}/Ga^{71}=60.4\%/39.6\%=1.53$

FIG.9B

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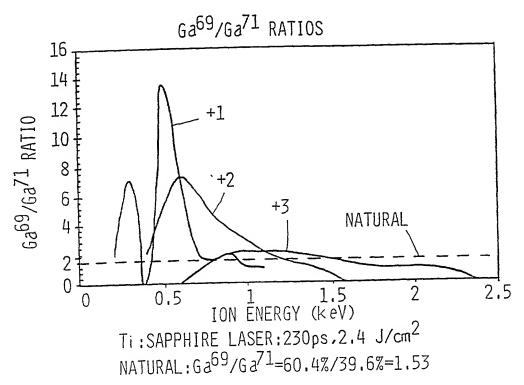
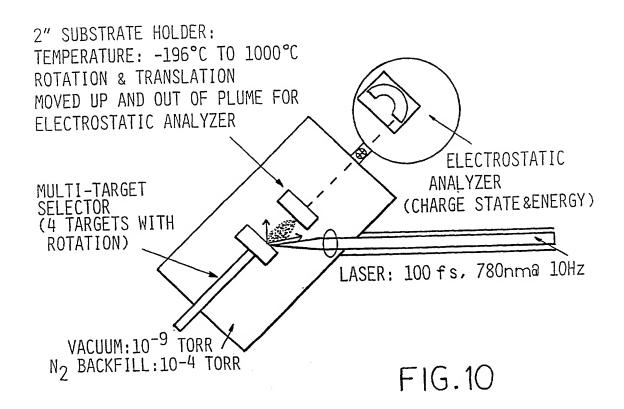


FIG.9C



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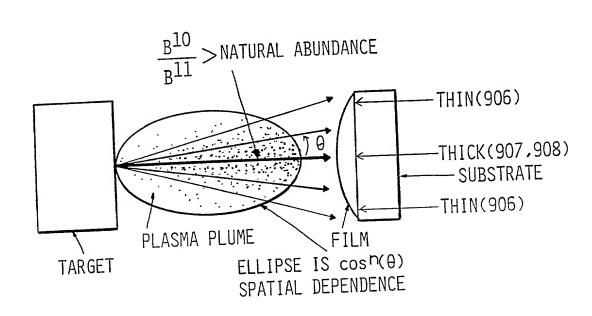


FIG.11

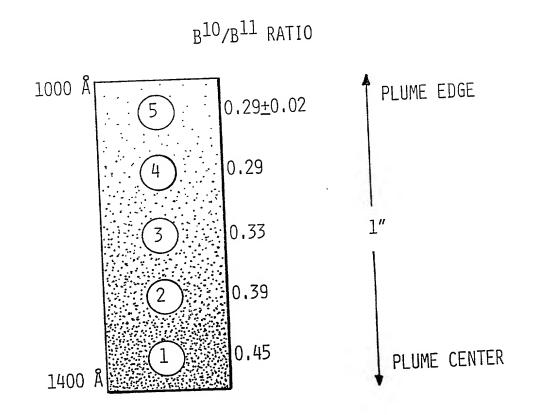
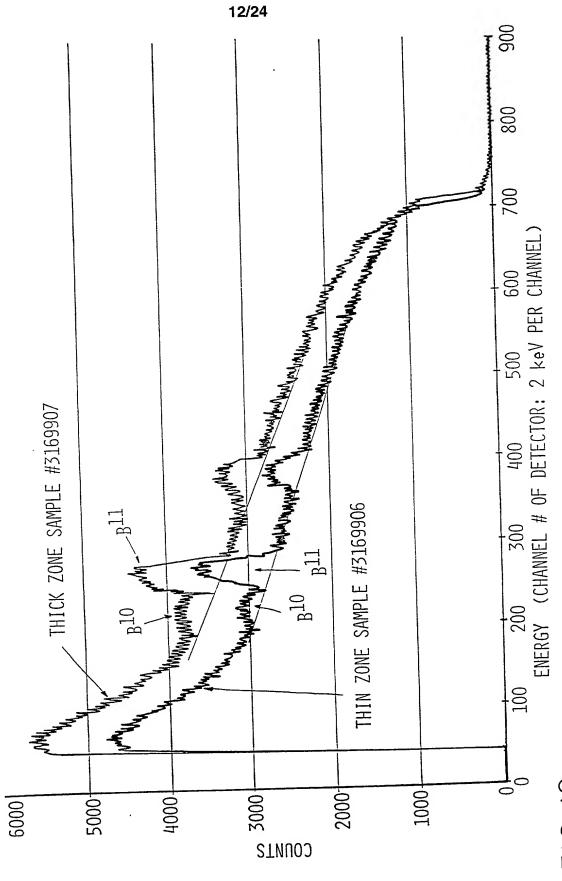
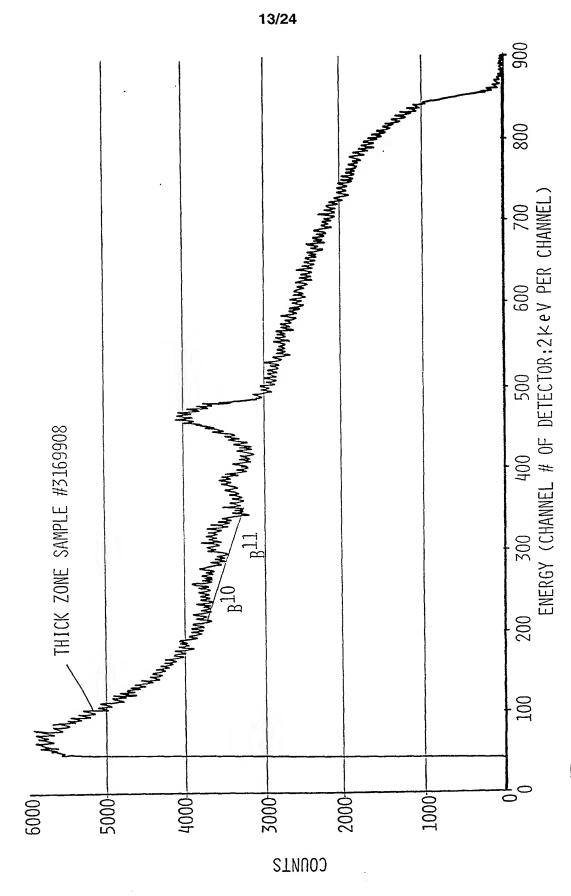


FIG. 14A



F16.12



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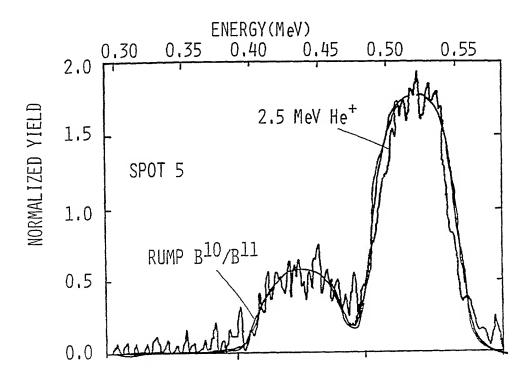


FIG.14B

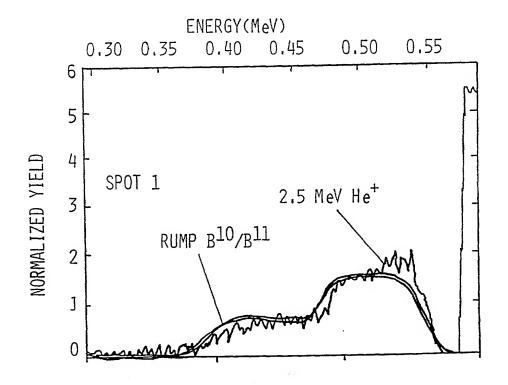
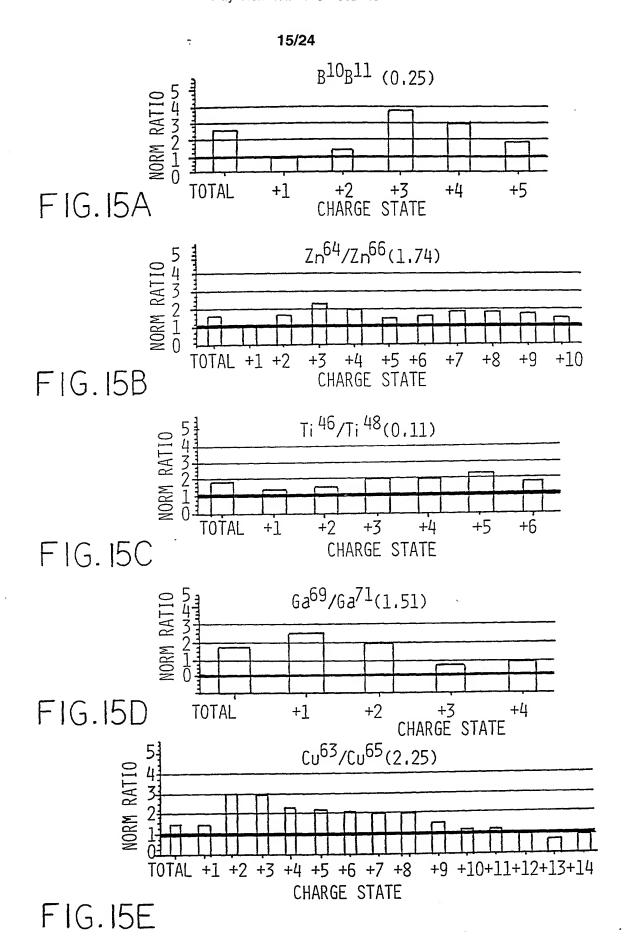
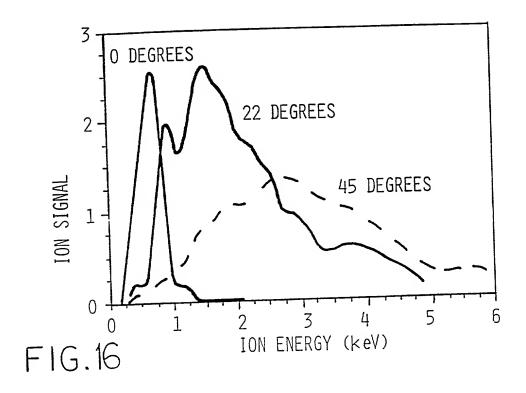


FIG.14C



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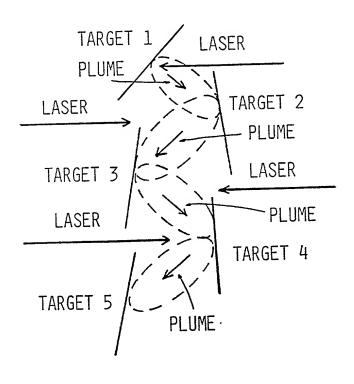
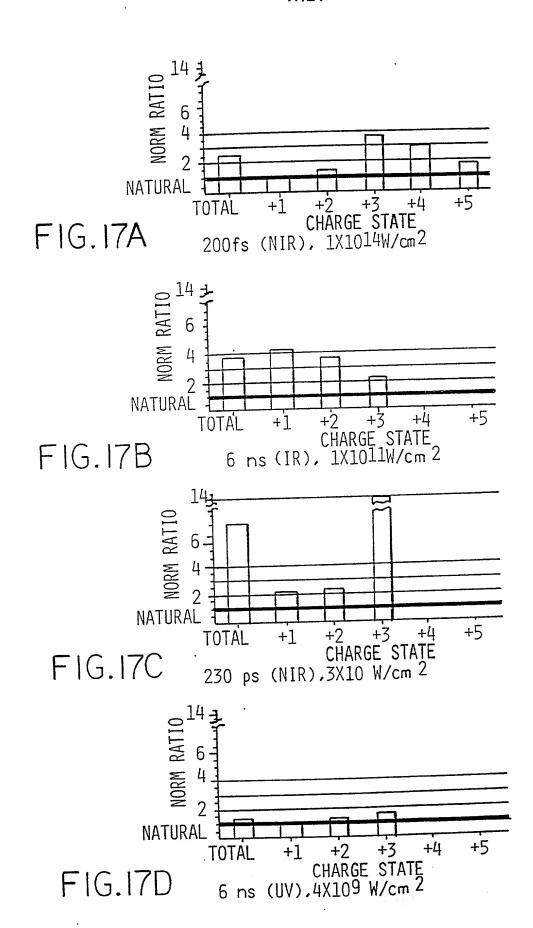


FIG. 18

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Title: METHOD FOR LASER INDUCED ISOTOPE ENRICHMENT Inventor: PETER P. PRONKO, ET AL. Atty. Ref. No.: 2115D-002245

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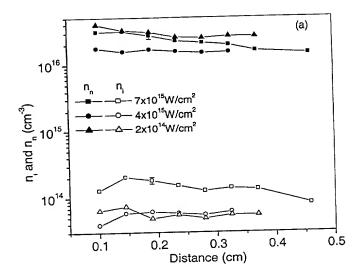


FIG. 19A

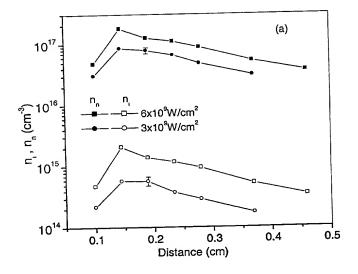


FIG. 19B

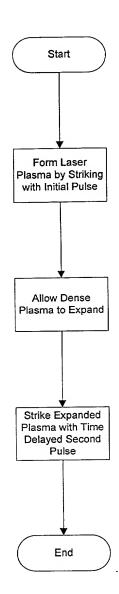


FIG. 20

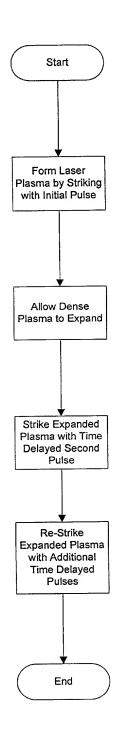


FIG. 23



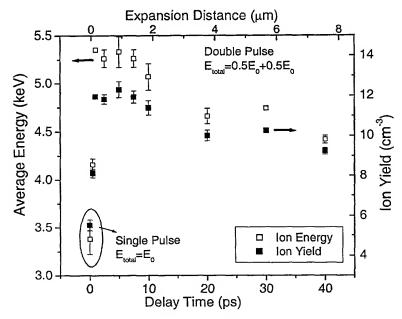


Fig. 1. Average ion yield and energy as a function of time-delay between two identical 120 femtosecond ablation pulses on silicon. The single pulse at zero delay has an energy fluence of 2.2 kJ/cm² on a beam spot diameter of 42 microns. The two double pulses have a fluence of 1.1 kJ/cm² each. Expansion distance based on measured average ion velocity of 1.9x10⁷cm/s

FIG. 22

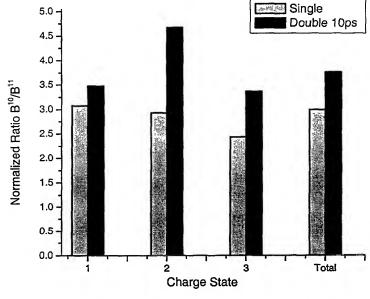
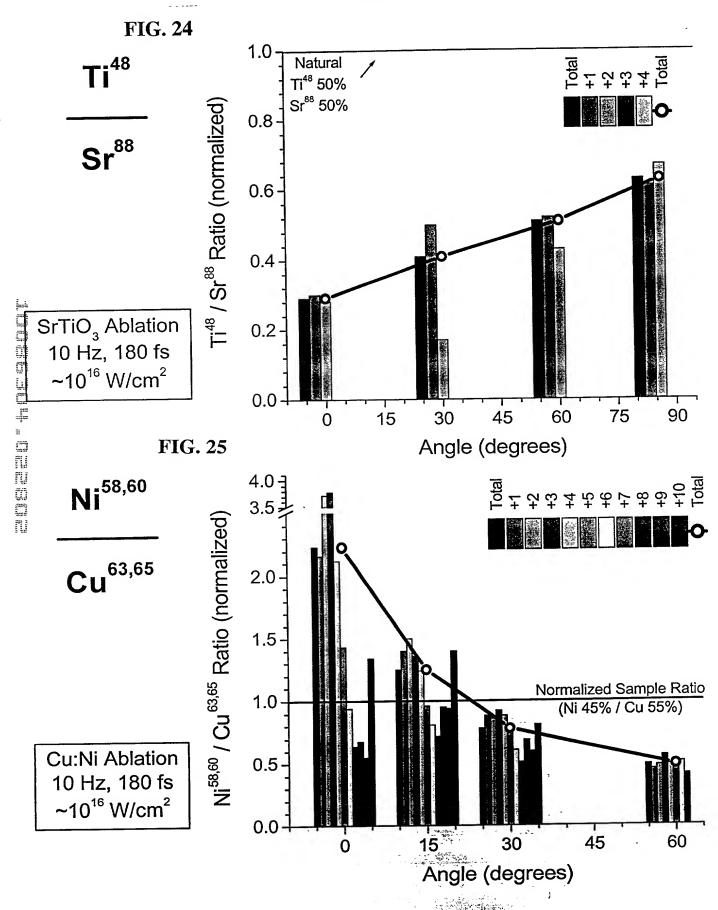


Fig. 1. Enhancement of isotope separation for boron ions in an ultrafast laser ablation plume. Single pulse: 2.2 kJ/cm^2 . Double pulse: 1.1 kJ/cm^2 each pulse, separated by 10 ps. Laser pulses are 120 fs, 780 nm at 10 Hz. Total laser intensity: $2x10^{16} \text{ W/cm}^2$. Natural abundance = 1.

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Atty. Ref. No.: 2115D-002245





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FIG. 26

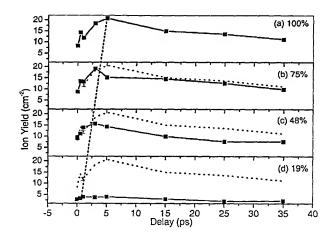


FIG. 27

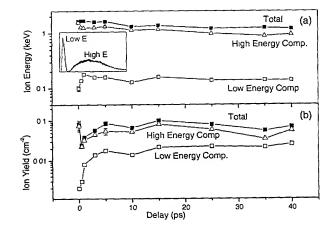
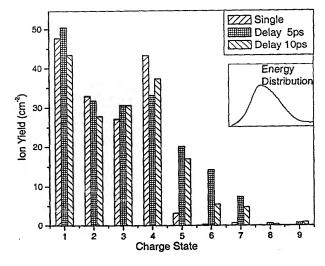


FIG. 28



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FIG. 29

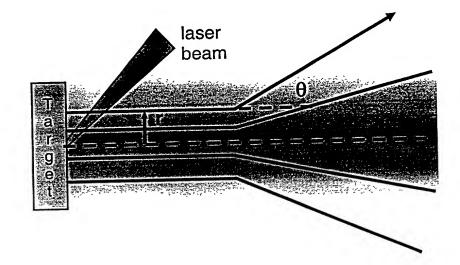
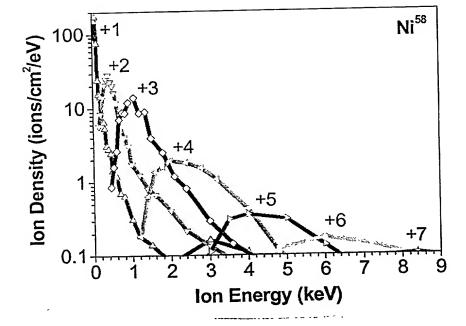


FIG. 30



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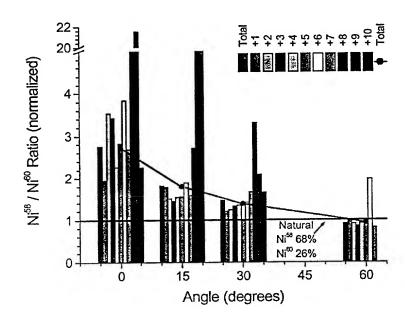


FIG. 32

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